

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-55 (cancelled).

Claim 56 (currently amended): An air treatment device comprising:

a housing;

a plurality of electrodes supported by the housing;

a voltage generator operatively coupled to the electrodes, the voltage generator being operable to generate voltage; and

at least one sensor operatively coupled to the voltage generator, the sensor having a light source and a light detector, the voltage generated by the voltage generator being adjusted based on a condition sensed by the sensor; and

a processor operatively coupled to the sensor and the voltage generator, the processor being operable to cause an adjustment of the voltage based on a signal received from the sensor, the signal being related to the condition sensed by the sensor.

Claim 57 (previously presented): The air treatment device of claim 56, wherein the sensor is a particulate detector.

Claim 58 (previously presented): The air treatment device of claim 57, wherein the particulate detector is a photoelectric unit.

Claim 59 (previously presented): The air treatment device of claim 56, wherein the sensor detects the presence of humans or animals.

Claim 60 (previously presented): The air treatment device of claim 56, wherein the sensor is a passive IR detector.

Claim 61 (previously presented): The air treatment device of claim 56, wherein the sensor is an ozone sensor.

Claim 62 (previously presented): The air treatment device of claim 56, wherein the sensor is a remote unit.

Claim 63 (previously presented): The air treatment device claim 62, wherein the remote unit is a wireless communication device.

Claim 64 (previously presented): The air treatment device of claim 56, wherein the electrodes, the voltage generator and the sensor are a single unit.

Claim 65 (currently amended): The air treatment device of claim 56, ~~further comprising a processor operatively coupled to the sensor and the voltage generator for adjusting the voltage generated by the voltage generator based on a signal received from the sensor, the signal being related to the condition sensed by the sensor~~wherein the condition sensed is selected from the group consisting of: (a) a presence of humans; (b) a presence of animals; (c) a change in ozone level; and (d) a change in particulate level.

Claim 66 (currently amended): An air treatment device comprising:

a housing;

a plurality of electrodes supported by the housing;

a voltage generator operatively coupled to the electrodes, the voltage generator being operable to generate voltage; and

at least one ozone sensor operatively coupled to the voltage generator, the ozone sensor being operable to produce a plurality of signals used for adjusting the voltage generated by the voltage generator; and

a processor operatively coupled to the ozone sensor and the voltage generator, the processor being operable to cause an adjustment of the voltage based on: (a) a first signal received from the ozone sensor representing a first ozone concentration and (b) a second signal received from the ozone sensor representing a second ozone concentration.

Claim 67 (currently amended): ~~The air treatment apparatus of claim 66, further comprising a processor operatively coupled to the ozone sensor and the voltage generator for adjusting the voltage generated by the voltage generator based on a first signal representing a first ozone concentration and a second signal representing a second ozone concentration received from the ozone sensor~~wherein the first ozone concentration is associated with a light transmission, and the second ozone concentration is associated with a different light transmission.

Claim 68 (previously presented): The air treatment device of claim 66, wherein the ozone sensor includes at least one light source and at least one light source detector.

Claim 69 (previously presented): The air treatment device of claim 66, wherein the ozone sensor is a remote unit.

Claim 70 (previously presented): The air treatment device of claim 69, wherein the remote unit is a wireless communication device.

Claim 71 (previously presented): The air treatment device of claim 66, wherein the electrodes, the voltage generator and the sensor are a single unit.

Claim 72 (previously presented): An air treatment device comprising:

a housing;

a plurality of electrodes supported by the housing;

a voltage generator operatively coupled to the electrodes, the voltage generator being operable to generate voltage;

at least one ozone sensor operatively coupled to the voltage generator, the ozone sensor operable to provide a plurality of signals relating to a plurality of sensed ozone concentrations; and

a processor operatively coupled to the ozone sensor and the voltage generator, the processor being operable to adjust the voltage based on comparing a first signal representing a first ozone concentration to a second signal representing a second ozone concentration sensed by the ozone sensor.

Claim 73 (previously presented): The air treatment device of claim 72, wherein the ozone sensor includes at least one light source and at least light source detector.

Claim 74 (previously presented): The air treatment device of claim 72, wherein the processor adjusts a peak voltage of the voltage generator output.

Claim 75 (previously presented): The air treatment device of claim 72, wherein the processor adjusts a duty cycle of the voltage generator output.